

## Purchasing Receipts

Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200  
Fax 613 632-5246

Plex 12/30/2018 12:00 PM *dart.Tollis.Andrew*



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER PO041984

E-MAILED  
DEC 07 2018

<b>Supplier:</b>	MES002-VC Metaux Solutions 2625 boul Jacques-Cartier Est Longueuil QC J4N 1L7 Canada Phone: 800 558 8858 Fax: 514 633 8044	<b>PO No:</b>	PO041984
		<b>PO Date:</b>	12/7/18
		<b>Due Date:</b>	12/21/18
		<b>Purchase Order Revision:</b>	
		<b>Revision Date:</b>	
		<b>Ship-To Contact:</b>	Lavoie, Chantal Phone: clavoie@dartaero.com
<b>Ship To:</b>	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	<b>Via:</b>	Ground
		<b>Pymt Terms:</b>	Net 60
		<b>Freight Terms:</b>	
		<b>Special Comments:</b>	

## Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		M303B1.000X03.000		303 Bar 1" X 3' : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	-	12/21/18	12 ft	0 ft	12 ft	\$132.10/ft	\$1,585.20
2		M304B0.250x0.500		304 Bar .250 X .500 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	12/21/18	300 pcs	0 pcs	300 pcs	\$4.0521/pcs	\$1,215.63
												Grand Total: \$2,800.83



Dart Aerospace Ltd.  
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**PURCHASE ORDER  
PO041984**

**Order Notes**

**Procurement Quality Clauses**

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
  
- A048 counterfeit parts avoidance, detection, mitigation and disposition program

- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 12/7/18 12:35 PM dart.lavoie.chantal

## Shipping Order

17/12/2018

METAUX SOLUTIONS INC  
 2625 BOUL JACQUES CARTIER EST  
 LONGUEUIL, QUEBEC  
 J4N 1L7              Tel. : 450 641-3330

*Order* : 140446  
*Reference* : 41984  
*Bid* : 30368  
*Ship* : PICK UP / PICK UP

Customer: 6323336

## Ship To

DART AEROSPACE LTD  
 1270, ABERDEEN STREET  
 HAWKESBURY, ONTARIO  
 K6A 1K7

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delive	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SF133	303 FLAT 1 X 3 1 X 12' R/L ***** HT,275070 <i>AA</i>	12.17	( <u>12.17</u> )	<u>Ø</u>
SF14124HR	304 STAIN FLA .25" X .500" HR 25 X 12' R/L HT,67736108 <i>AA</i>	325	( <u>325</u> )	<u>Ø</u>

LIVRE AVEC AUTRE COMMANDE      *27/12/18*  
 JP

Shipping : \_\_\_\_\_

Ref. : \_\_\_\_\_

Package No. : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Merchandise Received: \_\_\_\_\_

# CERTIFICATE OF TEST CERTIFICAT D'ESAI

Page 01 of 02

Certification Date  
14-DEC-2018

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

46052-J

Invoice Number  
T387117

ART NUMBER/NUMÉRO DE PIÈCE

511237

SHIPPED TO: METAUX SOLUTIONS INC. SHIP TO: METAUX SOLUTIONS (RIVE-SUD)  
ENDU À: EXPÉDIÉ À:  
2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1L7  
2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1

Description: 303 CD ANN BAR ASTM A582  
1 X 3 FLAT X 12' R/L

Line Total: 125 LB

WEIGHT: 275070

ITEM: 511237

Specifications:

AMS 5640 TYPE 1 V  
ASTM A370 17  
MIL S 852

(ASTM A582) 12  
ASME SA320 15

ASTM A320 17  
ASTM A314 15

## CHEMICAL ANALYSIS

C	SI	MN	CR	MO	CU	NI	CO
0.035	0.30	1.72	17.19	0.42	0.44	8.15	0.128
P	S	ZR					
0.031	0.30	0.004					

RECEIVED: R547775

## COUNTRY OF ORIGIN : ITALY

## MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	65.0	99.0	42.0	56.0	204

GRAIN SIZE : 5 -

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# CERTIFICATE OF TEST CERTIFICAT D'ESAIS

Page 02 of 02

Certification Date  
14-DEC-2018

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

46052-J

Invoice Number  
T387117

PART NUMBER/NUMÉRO DE PIÈCE

511237

SOLD TO: /ENDU À:	METAUX SOLUTIONS INC. 2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1L7	SHIP TO: EXPÉDIÉ À:	METAUX SOLUTIONS 2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1	(RIVE-SUD)
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Description: 303 CD ANN BAR ASTM A582

1 X 3 FLAT X 12' R/L

HEAT: 275070

ITEM: 511237

Line Total: 125 LB

STRAND CAST REDUCTION RATIO 15.9 TO 1  
MATERIAL IS FREE FROM MERCURY CONTAMINATION

NO WELD REPAIR PERFORMED ON MATERIAL

THERMAL TREATMENT: OK

ANN TEMP 1940 DEG F FOR 5 HR / WATER

MACRO: OK

MICRO1: OK

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS BAR  
(NOTE: AISI 304/316 NOT ACCEPTABLE)

(ASTM A582)

M303BT TTT XWWWWWW  
THICK | WIDTH

WHERE "TTT" = THICKNESS IN INCHES  
AND "WWWWWW" = WIDTH IN INCHES  
EG. 0.5" x 3.0" BAR = M303B0.500X03.000

A SPECIFICATION:  
PART NUMBER:

A

D

C

B

A

B

A

RELEASED  
R 2010-07-02  
*[Signature]*

B	REFORMATTED, ADD SPEC(S) 24 DS 1, REF PAR GB420A	CP	10 01 05			
A	NEW ISSUE	DS	02 05 29			
REV	DESCRIPTION	BY	DATE			
DESIGN	DART AEROSPACE LTD					
DRAWN	HAWKESBURY, ONTARIO, CANADA					
CHECKED	DRAWING NO.					
MF. APPR.	REV. B					
APPROVED	M303B					
DE APPR.	TITLE					
DATE	303 BAR					
10.01.05	SCALE					
NFS						
COPYRIGHT © 2002 BY DART AEROSPACE LTD						
NOTICE: This drawing contains information which is the property of Dart Aerospace Ltd. It is to be kept confidential and is not to be reproduced or distributed outside Dart Aerospace Ltd. without written permission from Dart Aerospace Ltd.						

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303B1.000X03.00  
 DATE: 18/12/31

PO / BATCH NO.: P0041984/S140890

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 12 ft  
 QUANTITY INSPECTED: 12 ft  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000"  
 THICKNESS RECEIVED: 1.000"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	ASTM A582
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	47.275070
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>18/12/31</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

<p>Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458</p>		Abschlagsprüfzeugnis / Mill Test Certificate / Certif. de Qualidade <b>EN 10204:2004 / 3.1</b> Unsere Innere Verweisung / Our Int. Ref./ N° refint <b>5800038278 000010</b>		Nr.: / Nr.: / Nr.: <b>C000136628</b> Datum / Date / Data <b>18.12.2017</b>				
<b>Spezifikation / Standards / Normas</b> TYPE 304/UNS S30400 and TYPE 304L/UNS S30403 acc. to ASTM A276/A276M-16a ASTM A182/A182M-16a, ASTM A183/A193M-16, ASTM A179/A479M-16a, ASTM A320/A320M-15a, ASTM A314-15, ASTM A262-15 Pract. E, AMS QQ-S-763D, AMS 5630J, AMS 5647K, ASME SA179/SA479M, ASME SA276, ASME SA182/182M, ASME SA 193/SA193M, ASME SA320/SA320M, NACE MR0175-2015, execution as per ASTM A484/A484M-16.								
<b>Kunde / Customer / Cliente</b>			<b>Endgültiger Kunde / Final Customer / Cliente Final</b>					
Bestell-Nr./Order Nr./Enc.Nr. <b>c110766</b>			Bestell-Nr./Order Nr./Enc.Nr. <b>c110766.1</b>					
<b>Produktgruppe / Product Group / Grupo Produto</b> <b>AISI 304/L FLAT 1/4 X 1/2"</b>			<b>Gewicht / Weight / Peso</b> <b>1.059 lb</b>	<b>Bunde / Bundle / Atados</b> <b>01</b>				
Werkstoff-Nr. Material-no. Qualidade <b>1.4307</b>			Werkstoff-Normbezeichnung / Material standard grade / Norma do material <b>X 2 CrNi 18-9</b>					
<b>Beschreibung / Description / Descrição</b> Stainless steel flat bars, hot rolled, heat treated, straightened and pickled US DFAR 252.225-7009: MELT SOURCE: France / MFG: Portugal.								
Schnellzettel-Nr. Cast nr. / Fuso nr. <b>67736108</b>		<b>Chemische Analyse in % / Chemical composition in % / Análise química em %</b>						
EAF+AOD		C <b>0.018</b>	Si <b>0.525</b>	Mn <b>1.154</b>	P <b>0.029</b>	S <b>0.025</b>	Cr <b>18.127</b>	Ni <b>8.045</b>
		Mo <b>0.370</b>	Co <b>0.117</b>	Cu <b>0.406</b>	N <b>0.080</b>	Ti <b>0.002</b>	-	-
Proben-Nr. Test no. Ausmuster-nr.		<b>ASTM E399</b>		<b>ASTM A370</b>				
4036951.01.01		Kehrschlagarbeit Impact Test Resiliência {Charpy V}	Streckgrenze Yield point Tensão limite Rp 0,2 %	Dehngrenze 1% point Limite de extensão Rp 1,0%	Zugfestigkeit Tensile strength Tensão de ruptura Rm	Dehnung Elongation Alongamento A5	Einchnürrung Reduction of area Coef. Estricão Z	
		[J]	[Ksi]	[Ksi]	[Ksi]	[%]	[%]	
			48	57	93	53.9	56.4	
							70.1	
Visuelle Kontrolle Visual inspection Inspeção visual		<b>ASTM E10</b> Härte Hardness Dureza [HB]		<b>ASTM A262 Practice E</b> Korrosionsbeständigkeit IC Test Korroso intercristalina		Wärmebehandlung Heat treatment Tratamento térmico		
ASTM A484 Maßkontrolle Dimensional inspection Inspeção dimensional		<b>ASTM E112</b> Korngröße Grain size Tamanho de grão		Abrahmbohrlochprüfung Authorized Inspection Representative Inspector da Qualidade <b>396</b> Vasco Ferraria (Ω - VF)		Annealed Quenched 1900 °F (1050 °C) (water quenched)		
Verwechslungsprüfung Test of Identity Teste da identificação		Metalloptische Untersuchung Micrographic test Examen (ex from segregation defects)		<b>OK</b>				
Bemerkungen / Remarks / Observações Country of origin: Portugal, No weld repair done. Material is free of mercury and radiation contamination.		Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht. We confirm that this material meets the specification according the mentioned standards. Confirmamos que este material respeita as especificações do acordo com as normas referidas.						

of 3/20



## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304B0.250x0.500  
 DATE: 18/12/31

PO / BATCH NO.: P00419815140891

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 325ft  
 QUANTITY INSPECTED: 325ft  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.250"  
 THICKNESS RECEIVED: 0.250"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>ASTM A276</i>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>H7:67736108</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>6</i>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION	BAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	<u>61</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE:	<u>18/12/31</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in